

THE CLAIMS

What is claimed is:

1. A cyclone dust collecting apparatus for an upright vacuum cleaner, comprising:

5 a cyclone body that has upper and lower parts, inflow and outflow passages, and is removably connected with an upright vacuum cleaner body;

a grill body that has a lower opening and a connection passage for connecting to the outflow passage;

10 a shielding member removably connected to the grill body in order to shield the lower opening thereof;

a dust collector removably connected with the lower part of the cyclone body in order to collect dust that is separated in the cyclone body; and

15 blocking means for preventing the dust collector from being connected to the cyclone body when the shielding member is not previously assembled with the grill body.

2. The cyclone dust collecting apparatus of claim 1, wherein the blocking means includes:

20 a stopper pin disposed at the grill body and capable of moving upwardly and downwardly in order to prevent the dust collector from moving horizontally, wherein the stopper pin protrudes to the lower end of the cyclone body when the stopper pin moves downwardly; and

a spring for flexibly urging the stopper pin to move downwardly,

25 wherein the stopper pin is pushed by the shielding member connected with the grill body to move upwardly.

3. The cyclone dust collecting apparatus of claim 2, wherein the grill

body includes a guide unit for guiding the movement of the stopper pin and accommodating the spring.

4. The cyclone dust collecting apparatus of claim 3, wherein the guide
5 unit has at least one slot formed therein, and a locking member, for connecting to the slot in order to prevent the stopper pin from separating therefrom, wherein the locking member protrudes from an outer side of the stopper pin.

5. An upright vacuum cleaner, comprising:
10 a cleaner body that has a settling unit, the settling unit has upper and lower parts, an outflow path connected with the motor driving unit, and an inflow path connected with a suction brush;

a cyclone unit having a cyclone body, removably connected with the settling unit, upper and lower parts, inflow and outflow passages and being
15 installed at the settling unit in order to separate dust from an air drawn into through the inflow path and to discharge the clean air to the outflow path;

a dust collector removably connected to the lower part of the cyclone unit in order to collect the dust separated from the cyclone unit,

wherein the cyclone unit further comprises:

20 a locking knob rotatably disposed at the cyclone body in order to be removably connected with a knob connection hole formed at an inside wall of the settling unit;

a grill body having a lower opening and a connection passage connected with the outflow passage;

25 a shielding member removably connected with the grill body in order to shield the lower opening of the grill body; and

blocking means for preventing the dust collector from being connected

with the cyclone body when the shielding member is not previously assembled with the grill body.

6. The upright vacuum cleaner of claim 5, wherein the dust collector
5 is secured by a locking unit that moves upwardly and downwardly, and the locking unit is disposed at the lower part of the settling unit.

7. The upright vacuum cleaner of claim 5, which further comprises:
a locking lever rotatably disposed at the lower part of the grill body; and
10 a penetrating hole formed at a corresponding part of the shielding member to allow the locking lever to pass therethrough.

8. An upright vacuum cleaner, comprising:
a cleaner body has an outflow path connected with the motor driving
5 unit, and an inflow path connected with a suction brush;
a cyclone body that has upper and lower parts, inflow and outflow passages, and is removably connected with the cleaner body;
a grill body that has a lower opening and a connection passage for connecting to the outflow passage;
20 a shielding member removably connected to the grill body in order to shield the lower opening thereof;
a dust collector removably connected with the lower part of the cyclone body in order to collect dust that is separated in the cyclone body; and
blocking means for preventing the dust collector from being connected to
25 the cyclone body when the shielding member is not previously assembled with the grill body.

9. The upright vacuum cleaner of claim 8, wherein the blocking means includes:

a stopper pin disposed at the grill body and capable of moving upwardly and downwardly in order to prevent the dust collector from moving horizontally, wherein the stopper pin protrudes to the lower end of the cyclone body when the stopper pin moves downwardly; and

a spring for flexibly urging the stopper pin to move downwardly, wherein the stopper pin is pushed by the shielding member connected with the grill body to move upwardly.

10. The upright vacuum cleaner of claim 8, wherein the grill body includes a guide unit for guiding the movement of the stopper pin and accommodating the spring.

11. The upright vacuum cleaner of claim 8, wherein the guide unit has at least one slot formed therein, and a locking member for connecting to the slot in order to prevent the stopper pin from separating therefrom, wherein the locking member protrudes from an outer side of the stopper pin.